

M254 Auchinibert

Introduction

This large, detached house in Tudor style situated just outside the village of Killearn, Stirlingshire, was built for F. J. Shand, the manager of the Nobel's Explosives Co. Ltd of Glasgow.

Authorship: Letters to the client from Mackintosh confirm that he designed the house, and he is named as architect in other contemporary sources. W. S. Moyes, who worked in Honeyman, Keppie & Mackintosh's office at this time, stated that Auchinibert was entirely designed by Mackintosh. ¹

Alternative names: Auchenibert.

Alternative addresses: Waterworks Road

Cost from job book: £4273 11s 8d

Status: Standing building

Current use: Residential (2014)

Listing category: A

Historic Scotland/HB Number: 10422

RCAHMS Site Number: NS58NW 32

Grid reference: NS 53084 85780

Chronology

1905

September: F. J. Shand consults Mackintosh about the design of his proposed new house. ¹

1906

April–May: Plans for Auchinibert drawn by Honeyman, Keppie & Mackintosh. ²

9 June: Tenders accepted for mason, joiner, plumber and plaster work. ³

20 June: Plans approved by the Western District Committee of the County of Stirlingshire. ⁴

21 September: First payment to mason. ⁵

1908

August–December: Final payments to mason, joiner and plumber. ⁶

1910

21 November: Earliest tender for 'alterations' designed by Campbell, Hislop & Welsh. ⁷

1911

February–December: Contractors paid for alterations. £520 15s 6d paid to Robert Simpson for 'various works', including 'deafening'; £177 1s 6d paid to William Douglas & Sons for painting. ⁸

29 March: Campbell, Hislop & Welsh's fee of £25 paid. ⁹

1913

17 July: £124 9s 4d paid to John Craig & Sons for joiner work. ¹⁰

1914

31 August: £705 12s 5d paid to J. B. Meiklejohn for 'electrical work'. ¹¹

28 December: £287 19s 8d paid to Robert Simpson, mason and wright, for work including a 'potting shed' and 'dry rot' treatment. ¹²

1916

23 August: Payments made for 'new garden house', amounting to £54 13s 10d. ¹³

c. 1975

Double garage formed out of wash-house and kitchen yard; part of service wing converted into a flat, with new external entrance. ¹⁴

Description

Commission

Auchinibert was built for the Glasgow businessman F. J. Shand, assistant manager of the Nobel's Explosives Co. Ltd. At the time of the commission he was living with his wife and young family at 4 Bowmont Gardens in the Dowanhill area of Glasgow's West End. He appears to have retained the Glasgow house, carrying out alterations there between 1911 and 1916, which suggests that Auchinibert was intended for weekends and holidays. ¹ Its situation 14 miles N. of Glasgow between the Campsie Fells and Loch Lomond made it a pleasantly rural retreat, but a nearby railway station kept it within reach of the city and work.

Why Shand turned to Honeyman, Keppie & Mackintosh to design his new house is not known, nor is it clear if he specifically wanted Mackintosh to undertake the job. He seems to have consulted the architect in early September 1905, and on 13 September Mackintosh wrote to him with some illustrations of his recent domestic work:

I am sorry that the book on Sussex Cottages has been lent from our office but I have written for it and I should have it by Friday. I have pleasure in sending you 2 plans and six photographs of "The Hill House" at Helensburgh and a copy of *Dekorative Kunst* showing some views of "Windyhill" [at] Kilmacolm. The latter seems about the size of house you spoke of. I trust they may help you to define your own ideas of your house. The Hunterian, University of Glasgow: letter from Mackintosh to F. J. Shand, 13 September 1905, GLAHA 55479. The book on Sussex cottages was perhaps E. Guy Dawber, *Old Cottages and Farmhouses in Kent and Sussex*, London: B. T. Batsford, 1900.

Shand replied the next day. Although his letter is lost, he apparently expressed a preference for a more traditional style, and Mackintosh responded obligingly:

I may say that I am in perfect agreement with you regarding the building and furnishing of your proposed house in one style. It is only a coincidence that I sent you illustrations of work done for clients who wanted work such as I have sent you. I thought that the arrangement of plan in these houses might interest and help you. We have many books here illustrating old English work and if these would be of some service to you I should be glad to show or lend them to you. If you want a house in the Tudor or any other phase of English architecture, I can promise you my best services if you ask me to be your architect. The Hunterian, University of Glasgow: letter from Mackintosh to F. J. Shand, 15 September 1905, GLAHA 55480.

It has been suggested that Mrs Shand, who came from the Isle of Man, ⁴ was responsible for pushing the design in a more English direction. ⁵ When asked for his recollections of the job by Thomas Howarth in 1947, W. S. Moyes, who had worked in Honeyman, Keppie & Mackintosh's office, thought it possible that the mullioned windows were requested by Mr Shand. ⁶

Exterior

The building is an attractive but not particularly imaginative version of a many-gabled Cotswold manor house. Alien to its Scottish setting, it recalls some of the 16th- and 17th-century houses sketched by Mackintosh on his tours of S.W. England. The long, horizontal proportions of the mullioned windows come from these English examples (which may also have been a source for the window strips at the Willow Tea Rooms and in the drawing room of Mackintosh's own house in Florentine Terrace). The use of honey-coloured sandstone matches the style.



Only a few minor features show Mackintosh's individualism: the reverse-ogee moulding over the front door, which ends in odd little triangular label stops; the *cyma recta* mouldings on the tops of the chimney-stacks; and one or two small, square windows high up on the N. and S. elevations, which recall the Scottish castellated tradition.



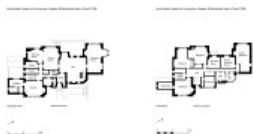
An underground aqueduct carrying water from Loch Katrine to Glasgow crosses the grounds, and is said to have restricted the siting of the house. ⁷ This may explain why Mackintosh did not adopt an L-shaped plan to take better advantage of the S. aspect. The garden terrace enjoys a fine view W. over gently sloping ground towards the village and distant Loch Lomond, but the S. front has only a few small windows, and is largely given over to service accommodation and the kitchen yard.



Interior

The following description is based on Mackintosh's drawings, and on photographs of Auchinibert taken c. 1973.

The plan is quite different from Windyhill and The Hill House. There, the principal rooms are strung out along one side of a corridor, but at Auchinibert they are grouped around a large, central hall. The hall is polygonal at the corner where the main stairs rise, with a broad angle tucked underneath. Drawing room and dining room open off opposite sides, with a morning room opening out of the dining room. This type of hall-and-hearth-centred plan resembles the houses of Mackintosh's English contemporaries M. H. Baillie Scott and C. F. A. Voysey. Upstairs, four bedrooms and two dressing rooms open off a N.-S. corridor, with a second angle on the half landing. The service wing is at the S.E. corner.



Dark oak panelling in the hall and dining room is of generally simple design, but with isolated use of linenfold around the front door and above one of the fireplaces. Fluted classical pilasters flank the dining-room fireplace. It has been suggested that this unadventurous woodwork reflects the client's wishes,⁸ a view possibly borne out by one of Mackintosh's letters to Shand: 'I have your letter regarding wood panelling for Dining Room, Morning Room and Hall. This work I will put in hand according to instructions in your letter.'⁹ More characteristic of Mackintosh is the balustrade on the landing, with its flat handrail supported on plain slats, comparable to the Oak Room staircase in Miss Cranston's Ingram Street tea rooms.¹⁰ Some of the bedroom fireplaces faintly echo those at The Hill House and Hous'hill, but are very much simpler.



Later alterations.

Thomas Howarth wrote in 1952 that Mackintosh fell out with the Shands during the project, and 'before Auchinibert was completed, [he] gave up the job and another architect was called in.'¹¹ While Howarth evidently had first-hand information from some of those who worked on the house, this description of events is not quite borne out by the surviving documents. According to Honeyman, Keppie & Mackintosh's job-book entry, some of the principal rooms were carpeted in March 1908, which implies that the building was more or less finished; and the 'other architect', Alexander David Hislop (1876–1966), appears not to have begun work on Auchinibert until late in 1910.¹² But whatever the precise facts, the employment of another architect to make alterations after such a short interval does strongly suggest that the Shands were dissatisfied with Mackintosh's work in some way. Hislop may have appeared an attractive alternative because the firm in which he was by this time a partner would already have been known to Shand, having worked on the interior redecoration of the Nobel's Explosives Co.'s offices at 195 West George Street, Glasgow, in 1900.¹³

Fourteen drawings for alterations to Auchinibert, mostly dated between October 1910 and April 1911 and thought to be by Hislop, were still in the house in 1978, but their present whereabouts are not known.¹⁴ A list of these drawings survives, however, which gives clues to some of the works proposed, including a 'new bedroom' and a 'new front bathroom'.¹⁵ This information tallies with pencil amendments made by Hislop to a May 1906 set of drawings by Mackintosh for Auchinibert, which show a bathroom carved out of the guest bedroom at the N. end of the first floor and a rearrangement of the bathroom above the front entrance, as well as other changes.¹⁶ These were presumably the 'various works' for which the mason and wright Robert Simpson was paid £520 15s 6d between 27 February and 1 December 1911. At the same time he was also paid for 'deafening', or sound proofing.¹⁷

Further minor works were carried out under Hislop over the next five years, as well as a couple of more significant jobs: in August 1914 J. B. Meiklejohn was paid £705 12s 5d for electrical work, and in December the same year Simpson received £287 19s 8d for a 'potting shed' and for work in connection with dry rot – possibly remedying a defect in Mackintosh's work.¹⁸

Hislop's most visible alteration to Auchinibert is a single-storey addition to the drawing room at the N. end of the entrance front, roughly sketched in pencil on the May 1906 drawings. It seems that an extension on this site was under consideration while Mackintosh was still employed at Auchinibert, because written next to it in Mackintosh's hand on the basement and ground-floor plans from one of the surviving sets are the words 'This part of house not to be built mean time'.¹⁹ The extension was perhaps an idea that originated with the client, which Mackintosh was unwilling to implement because he thought it would damage the appearance of the entrance front, and for which the services of another architect had therefore to be sought.



The balustrade surrounding the lower terrace overlooking the garden is a late 20th-century addition and was not in existence when the house was photographed c. 1973. Its baroque balusters contrast with the much simpler balustrade designed by Mackintosh to enclose the small upper terrace between the dining and drawing rooms, which has perfectly plain, straight-sided balusters of square section.



Around 1975 the kitchen yard was roofed over, and converted along with the wash-house into a double garage with twin arched entrances. The service wing was also converted into a flat, with a separate external entrance from the S. ²⁰



Perspective drawings

Mackintosh drew two pen and ink perspectives of Auchinibert. ²¹ One has the name of the Glasgow printers Bone & Hulley written on the back, with the instruction 'make for 3 col[umn] breadth'. This suggests that a printing plate or block was to be made from it, possibly for reproduction in a periodical, but no such publication has been traced. The same drawing is inscribed on the back with the office address of Honeyman, Keppie & Mackintosh. The other is inscribed: "'A Country House' / Chas. R Mackintosh Architect / To be returned to / 6 Florentine Terrace / Ann St Hillhead'. It may have been submitted for exhibition, but no record of this has been found. There are a number of differences between the drawings and the house as built, most obviously the inclusion of a long mullioned-and-transomed window to light the stairs, which suggests that the drawings date from relatively early in the development of the design.

There are also two unfinished perspective drawings of the house in pencil, which appear not to be by Mackintosh. ²² One, showing the entrance front, seems to be related to a view from exactly the same angle by Andrew Graham Henderson, which was exhibited by Honeyman, Keppie & Mackintosh at the Glasgow Institute of the Fine Arts in 1908 and illustrated in *Academy Architecture*. ²³ The pencil version may have been an abandoned first attempt at this exhibition piece. It is notable that Mackintosh did not himself draw the perspective for the Institute, as he had two years before in the case of Scotland Street School, and it may indicate his disenchantment with Auchinibert. The critic of the *Glasgow Herald* found fault with the style of the exhibited drawing, which he thought gave an inadequate impression of the building: 'The pen-and-ink drawing by Mr. A. G. Henderson of a house at Killearn, designed by Messrs Honeyman, Keppie & Mackintosh, is in a kind unsuitable to its purpose surely. This would-be decorative method conveys little idea of the structure.' ²⁴ The drawing shows a raised terrace in front of the main (E.) entrance, which also features on Mackintosh's plans for the house. No such terrace exists today, and it is unclear if it was ever built.



Proposed village at Killearn

Mackintosh made rough plans for two groups of cottages to be built at Killearn. It is not clear if these have any connection with Auchinibert or Shand.

People

Clients:

- F. J. Shand

Contractors:

- George Adam & Son
- James Cormack & Sons Ltd
- John Craig
- Douglas, Hunter & Whitson
- Fyfe & Allan
- Haddow, Forbes & Co.
- Henry Hope & Son
- William Kemp & Co.
- The Lithic Flooring Co.
- A. McKenzie Ross
- Andrew Sharp
- Robert Simpson
- Smith & Wellstood
- J. H. White [& Son]

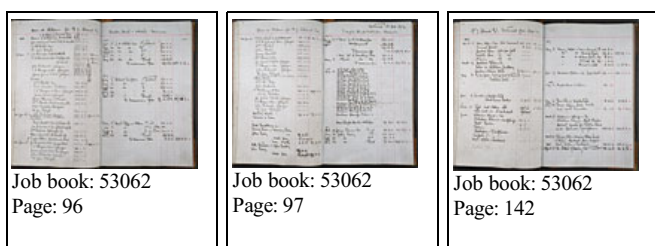
- J. & A. Williamson
- Wylie & Lochhead

Job Book

The job books of Honeyman & Keppie (later Honeyman, Keppie & Mackintosh) are now held by The Hunterian, University of Glasgow and include four volumes related to the Mackintosh period. The books were used by the firm to keep a project-by-project, day-by-day record of contractors, suppliers and expenditure. The name of a project and/or client is usually at the top of the left-hand page, followed by information about tradesmen who tendered. The name of the measurer (quantity surveyor) is usually at the top of the right-hand page, followed by information about payments to contractors and suppliers. All of the data for M254 is entered in the tables below.

Page numbering is not consistent in the job books. Sometimes a single number refers to a double-page spread and sometimes each page is individually numbered. Here, each image of a double-page spread is identified by the number given at the top of the left-hand page. (Images of all of the pages from the four job books can be found at [Browse Job Books, Visit Book and Cash Book.](#))

The following information about M254 has been extracted from the job books:



Client: F. J. Shand

Measurer: Douglas, Hunter & Whitson

Tenders:

Contractor	Type	Address	Date	Value	Accepted
J. H. White [& Son]	mason	no data in job book	1906	£38 0s 0d ¹	yes
J. H. White [& Son]	mason	no data in job book	1906	£141 0s 0d ²	yes
John Adam & Co.	mason	404 Pollokshaws Road	1906	£2351 0s 0d ³	no
J. & D. Meikle	mason	Ayr	1906	£2414 4s 9d	no
Mr Gow	mason	Kilsyth	1906	£2436 15s 2d ⁴	no
J. H. White [& Son]	mason	Pollokshields	1906	£2100 0s 0d	yes (9 June 1906)
R. Aitkenhead & Sons	mason	Trafalgar Street, Greenock	1906	£2205 0s 0d ⁵	no
John Kirkwood	mason	Glasgow	1906	£2707 7s 5d	no
E. C. Morgan & Son	mason	Glasgow	1906	£2270 4s 4d ⁶	no
James Grant	mason	Pitt Street, Glasgow	1906	£2707 7s 5d	no
J. & D. Meikle	joiner	Ayr	1906	£974 19s 9d	no
A. & J. Sinclair	joiner	Killearn	1906	£924 17s 8d	no
E. C. Morgan & Sons	joiner	Glasgow	1906	£1025 13s 5d	no
James Grant	joiner	Glasgow	1906	£1043 11s 0d	no
James Morrison	joiner	Polmadie	1906	£1054 17s 0d	no
William Baxter	joiner	Parliamentary Road	1906	£1048 19s 9d	no
Alexander Knox & Son	joiner	Bridgeton	1906	no data in job book	no
Mr Gow	joiner	Kilsyth	1906	£957 4s 6d	no
John Kirkwood	joiner	Glasgow	1906	£1043 11s 0d	no
Robert Simpson	joiner	Killearn	1906	£912 6s 11½d	yes (9 June 1906)

Hugh Twaddle & Son	plumber	163 London Road	1906	£284 9s 5d	no
James Johnstone & Son	plumber	off Cambridge Street	1906	no data in job book	no
William Anderson	plumber	Wellington Street	1906	£300 0s 0d	no
Moses Spiers & Co.	plumber	Bothwell Street	1906	£296 10s 0d	no
Fyfe & Allan	plumber	Woodlands Road	1906	£280 0s 0d	yes (9 June 1906)
James Ingleton & Co.	plumber	George Street	1906	£289 0s 0d	no
E. C. Morgan & Son	plumber	Glasgow	1906	£281 1s 11d	no
James Grant	plumber	Pitt Street, Glasgow	1906	£322 12s 2d	no
John Kirkwood	plumber	Glasgow	1906	£309 6s 5½d	no
Mr Gow	plumber	Kilsyth	1906	£356 9s 4d	no
J. & A. Williamson	plaster	no data in job book	1906	£181 2s 3½d	yes (9 June 1906)
R. A. McGilvray & Ferris	plaster	Glasgow	1906	£238 11s 0d	no
William Forbes	plaster	no data in job book	1906	£268 17s 2d	no
John Forbes	plaster	no data in job book	1906	£239 10s 3d	no
George Rome & Co.	plaster	no data in job book	1906	£225 0s 0d	no
William Tonner & Son	plaster	no data in job book	1906	£217 15s 3d	no
James Grant	plaster	Pitt Street, Glasgow	1906	£236 11s 10d	no
E. C. Morgan & Son	plaster	Glasgow	1906	£232 17s 0d	no
John Kirkwood	plaster	Glasgow	1906	£207 13s 8d	no
Mr Gow	plaster	Kilsyth	1906	no data in job book	no
John McDonald	plaster	Kirkintilloch	1906	£207 19s 6d	no
A. & D. McKay	slater	no data in job book	1906	no data in job book	no
John Anderson	slater	no data in job book	1906	£144 16s 0d	no
A. McKenzie Ross	slater	no data in job book	1906	£144 0s 0d	yes
A. & G. Robertson	slater	no data in job book	1906	£158 19s 2d	no
James Grant	slater	Pitt Street, Glasgow	1906	£151 11s 5d	no
E. C. Morgan & Son	slater	Glasgow	1906	£164 18s 2d	no
John Kirkwood	slater	Glasgow	1906	£113 15s 5d	no
Mr Gow	slater	Kilsyth	1906	£146 11s 0d	no
James Cormack & Sons Ltd	heating	no data in job book	no data in job book	£79 0s 0d	yes
John Craig	woodwork	no data in job book	no data in job book	£91 4s 10d ⁷	yes
John Craig	woodwork	no data in job book	no data in job book	£99 11s 9d ⁸	yes
Henry Hope & Son	steel casements	no data in job book	18 March 1907	£114 6s 0d ⁹	yes
Haddow, Forbes & Co.	tiles	no data in job book	19 March 1907	£42 0s 0d ¹⁰	yes
R. Simpson	gate	no data in job book	31 May 1907	£7 10s 0d ¹¹	no data in job book
Smith & Wellstood	boiler	no data in job book	4 June 1907	£3 13s 6d ¹²	yes
Fyfe & Allan	lead work	no data in job book	6 June 1907	£1 5s 0d ¹³	yes
William Kemp & Co.	kitchen range, grates, etc.	no data in job book	June 1907	£44 16s 0d ¹⁴	yes
The Lithic Flooring Co.	flooring	no data in job book	no data in job book	£12 2s 3d	yes

Payments (trades):






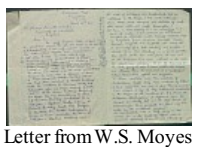
Name	Type	Payment out sum
J. H. White [& Son]	mason	First installment: 21 September 1906 Final installment: 26 August 1908 £1841 11s 6d ¹⁵
Robert Simpson	joiner	First installment: 7 January 1907 Final installment: 15 December 1908 £837 10s 1d ¹⁶
Fyfe & Allan	plumber	First installment: 8 February [1907] Final installment: 26 August 1908 £368 12s 3d ¹⁷
J. & A. Williamson	plaster	First installment: 2 May 1907 Final installment: April 1908 £129 9s 10d ¹⁸
A. McKenzie Ross	slater	First installment: no data in job book Final installment: 3 May [1908] £132 5s 8d ¹⁹
James Cormack & Sons Ltd	heating	Payment date: 23 December 1907 £82 19s 8d
John Craig	woodwork	First installment: 16 August 1907 Final installment: 23 January 1908 £246 5s 7d
Henry Hope & Son	windows	Payment date: 3 August 1907 £159 9s 4d ²⁰
Haddow, Forbes & Co.	tiles	Payment date: 17 June 1907 £42 0s 0d
Smith & Wellstood	boiler	Payment date: 2 August [1907] £3 13s 6d
William Kemp & Co.	kitchen range, grates, etc.	Payment date: 5 March [1907] £142 18s 6d ²¹
The Lithic Flooring Co.	flooring	Payment date: 8 April 1908 £12 2s 3d




Payments (suppliers):

Name	Service	Payment date	Payment sum
Andrew Sharp	no data in job book	First installment: 14 August 1906 Final installment: no data in job book	£147 18s 4d
George Adam & Son	'Iron catch and gate handles'	23 July 1908	£2 1s 0d
Wylie & Lochhead	'Dining Room, Morning Room, Ingle & Stair, Bordered Hair Carpet'	9 March [1908]	£28 0s 2d























Measurer fee payment: £96 14s 0d (no data in job book)

Documents

					
Letter from Mackintosh to F. J. Shand, 13 September 1905	Letter from Mackintosh to F. J. Shand, 15 September 1905	Letter from Mackintosh to F. J. Shand, 5 January [1907]	Letter from Mackintosh to F. J. Shand, 26 August 1908	Letter from Mackintosh to F. J. Shand, 23 November 1905	Letter from W.S. Moyes to Thomas Howarth, 29 April 1947, p. 1

					
Letter from W.S. Moyes to Thomas Howarth, 29 April 1947, p. 2	Letter from W.S. Moyes to Thomas Howarth, 22 July 1947, p. 1	Letter from W.S. Moyes to Thomas Howarth, 22 July 1947, p. 2			

Images

Auchinibert, Killeam, film by The Hunterian and Media Production Unit, University of Glasgow, 2013					
	View from W.	View from N.W.	View from S.E.	View from N.E.	Garden, W. front
					
View from N.W.	View from S.W.	Front entrance	Front entrance, detail	Front entrance, detail	Front entrance
					
Bay window, N. front	Window with dripmould, W. front	Garden door, W. front	Terrace balustrades	Original balustrade	View from terrace
					
Panelling detail, 1970s	Landing balustrade, 1970s	Fireplace alcove, 1970s	Ground-floor plan	First-floor plan	

Bibliography

Published

- Roger Billcliffe, *Charles Rennie Mackintosh: The Complete Furniture, Furniture Drawings and Interior Designs*, Moffat, Dumfriesshire: Cameron & Hollis, 4th edn, 2009, pp. 238–9
- Alan Crawford, *Charles Rennie Mackintosh*, London: Thames & Hudson, 1995, pp. 135–6, 144–5

- John Gifford, Frank Arnel Walker and Richard Fawcett, *Buildings of Scotland: Stirling and Central Scotland*, New Haven, CT, and London: Yale University Press, 2002, pp. 550–1
- Thomas Howarth, *Charles Rennie Mackintosh and the Modern Movement*, London: Routledge & Kegan Paul, 2nd edn, 1977, pp. 109–11
- David Stark, *Charles Rennie Mackintosh and Co.*, Catrine, Ayrshire: Stenlake Publishing, 2004, pp. 153–5
- *Academy Architecture*, 33, January 1908, p. 83

Unpublished

- Alison Harris, *A Report on the Present and Future Condition of the Remaining Buildings of Charles Rennie Mackintosh*, Dip.Arch. dissertation, Glasgow School of Art, 1976
- Hiroaki Kimura, 'Charles Rennie Mackintosh: Architectural Drawings', unpublished PhD thesis, University of Glasgow, 1982, pp. 52–3
- The Hunterian, University of Glasgow: letters from Mackintosh to F. J. Shand, GLAHA 55479, 55480, 55481, 55482 and 55483
- Stirling Council Archives Service: Register of New Buildings, Western District [of Stirlingshire], uncatalogued
- University of Glasgow Library, Department of Special Collections: client accounts of Campbell, Hislop & Welsh for 1897–1910, MS Hislop B.1, p. 139; 1898–1920, MS Hislop B.2, pp. 291, 293 and 377

Notes:

- 1: University of Toronto, Roberts Library: letter from W. S. Moyes to Thomas Howarth, 29 April 1947, B96-0028/017(3)
- 2: The Hunterian, University of Glasgow: letter from Mackintosh to F. J. Shand, 13 September 1905, GLAHA 55479; letter from Mackintosh to F. J. Shand, 15 September 1905, GLAHA 55480.
- 3: Stirling Council Archives Service: building plans for Western District of Stirlingshire, 14/1906.
- 4: The Hunterian, University of Glasgow: Honeyman, Keppie & Mackintosh job book, GLAHA 53062, pp. 96–7.
- 5: Stirling Council Archives Service: Register of New Buildings, Western District of Stirlingshire.
- 6: The Hunterian, University of Glasgow: Honeyman, Keppie & Mackintosh job book, GLAHA 53062, p. 96.
- 7: The Hunterian, University of Glasgow: Honeyman, Keppie & Mackintosh job book, GLAHA 53062, p. 96.
- 8: University of Glasgow Library, Department of Special Collections: clients' ledger of Campbell, Hislop & Welsh for 1898–1920, MS Hislop B.2, pp. 291, 293, 377.
- 9: University of Glasgow Library, Department of Special Collections: clients' ledger of Campbell, Hislop & Welsh for 1898–1920, MS Hislop B.2, pp. 291, 293, 377.
- 10: University of Glasgow Library, Department of Special Collections: client accounts of Campbell, Hislop & Welsh for 1897–1910, MS Hislop B.1, p. 139.
- 11: University of Glasgow Library, Department of Special Collections: clients' ledger of Campbell, Hislop & Welsh for 1898–1920, MS Hislop B.2, pp. 291, 293, 377.
- 12: University of Glasgow Library, Department of Special Collections: clients' ledger of Campbell, Hislop & Welsh for 1898–1920, MS Hislop B.2, pp. 291, 293, 377.
- 13: University of Glasgow Library, Department of Special Collections: clients' ledger of Campbell, Hislop & Welsh for 1898–1920, MS Hislop B.2, pp. 291, 293, 377.
- 14: University of Glasgow Library, Department of Special Collections: clients' ledger of Campbell, Hislop & Welsh for 1898–1920, MS Hislop B.2, pp. 291, 293, 377.
- 15: Alison Harris, *A Report on the Present and Future Condition of the Remaining Buildings of Charles Rennie Mackintosh*, Dip.Arch. dissertation, Glasgow School of Art, 1976.
- 16: University of Glasgow Library, Department of Special Collections: clients' ledger of Campbell, Hislop & Welsh for 1898–1920, MS Hislop B.2, pp. 291, 293, 377.
- 17: The Hunterian, University of Glasgow: letter from Mackintosh to F. J. Shand, 13 September 1905, GLAHA 55479. The book on Sussex cottages was perhaps E. Guy Dawber, *Old Cottages and Farmhouses in Kent and Sussex*, London: B. T. Batsford, 1900.
- 18: The Hunterian, University of Glasgow: letter from Mackintosh to F. J. Shand, 15 September 1905, GLAHA 55480.
- 19: 1901 Census viewed at Ancestry.co: www.ancestry.co.uk/ [accessed 22 February 2013].
- 20: Charles McKean, *Stirling and the Trossachs*, Edinburgh: R.I.A.S. and Scottish Academic Press, 1985, p. 135.

- 21:** University of Toronto, Robarts Library: letter from W. S. Moyes to Thomas Howarth, 29 April 1947, B96-0028/017 (13).
- 22:** The Hunterian, University of Glasgow: Auchinibert file, notes for public opening 9 and 10 July 1977.
- 23:** Roger Billcliffe, *Charles Rennie Mackintosh: The Complete Furniture, Furniture Drawings and Interior Designs*, Moffat, Dumfriesshire: Cameron & Hollis, 4th edn, 2009, pp. 238–9.
- 24:** The Hunterian, University of Glasgow: letter from Mackintosh to F. J. Shand, 5 January 1907, GLAHA 55482. The letter is actually dated '5 January 1906', presumably a slip of the pen.
- 25:** Roger Billcliffe, *Charles Rennie Mackintosh: The Complete Furniture, Furniture Drawings and Interior Designs*, Moffat, Dumfriesshire: Cameron & Hollis, 4th edn, 2009, p. 238.
- 26:** Thomas Howarth, *Charles Rennie Mackintosh and the Modern Movement*, London: Routledge & Kegan Paul, 2nd edn, 1977, pp. 109–11.
- 27:** University of Glasgow Library, Department of Special Collections: clients' ledger of Campbell, Hislop & Welsh for 1898–1920, MS Hislop B.2, pp. 291, 293 and 377.
- 28:** University of Glasgow Library, Department of Special Collections: client accounts of Campbell, Hislop & Welsh for 1897–1910, MS Hislop B.1, pp. 34–5. The firm supplied drawings for panelling in the board room and for electrical work.
- 29:** The Hunterian, University of Glasgow: letter from Dr Norton to Pamela Reekie, 23 January 1980. Dr Norton, who sold Auchinibert in 1978, believed the drawings to be 'Hislop's working sketches based on a technician's copy of the Mackintosh plans'.
- 30:** The Hunterian, University of Glasgow: letter from Pamela Reekie to Dr Norton, 18 January 1980.
- 31:** Sold by Phillips, Glasgow School of Art, 10 November 2000, lot 416; now (2011) mostly in the collection of Robert Harper, Staines. These drawings – virtually identical with those approved by the Western District Committee of the County of Stirlingshire on 20 June 1906 – were formerly in the possession of Hislop, Welsh & Humphreys, successors to Campbell, Hislop & Welsh. A third set of drawings for Auchinibert, dated November 1906, was offered for sale by Phillips at Glasgow School of Art on 8 November 2001, lot 504.
- 32:** University of Glasgow Library, Department of Special Collections: clients' ledger of Campbell, Hislop & Welsh for 1898–1920, MS Hislop B.2, pp. 291, 293 and 377.
- 33:** University of Glasgow Library, Department of Special Collections: clients' ledger of Campbell, Hislop & Welsh for 1898–1920, MS Hislop B.2, pp. 291, 293 and 377.
- 34:** Staines: collection of Robert Harper.
- 35:** Alison Harris, *A Report on the Present and Future Condition of the Remaining Buildings of Charles Rennie Mackintosh*, Dip.Arch. dissertation, Glasgow School of Art, 1976.
- 36:** The Hunterian, University of Glasgow: GLAHA 46433 (MM254-022), GLAHA 55475 (M254-022).
- 37:** The Hunterian, University of Glasgow: GLAHA 41856 (M254-018), GLAHA 42000 (M254-019).
- 38:** *Academy Architecture*, 33, January 1908, p. 83.
- 39:** *Glasgow Herald*, 23 March 1908, p. 11.
- 40:** For 'Pavements & Piers', or 'Front Pavement'.
- 41:** For 'Terrace Wall', or 'Lower Terrace & steps'.
- 42:** Alternative figure of £2471 also recorded.
- 43:** Alternative figure of £2461 15s 2d also recorded.
- 44:** Alternative figure of £2505 19s 4½d also recorded.
- 45:** Alternative figure of £2368 15s 10d also recorded.
- 46:** For 'Wood panelling in Dining Room & Morning Room'. Includes £5 for 'wood pins' (scored through, with the word 'omit' written beside it), and £6 2s 5d for 'Iron Work'.
- 47:** Includes £5 for 'wood pins'.
- 48:** Includes £5 8s 6d for 'enamel paint'.
- 49:** For 'Tiles in Kitchen, Scullery Larder & China Store'.

50: For 'Gate for Cart Entrance' and 'Entrance Gates'.

51: For 'Wash house Boiler'.

52: For 'Lead work on R. waterheads', at '25/- to 30/- each'.

53: For 'Kitchen Range & couplings', 'Boot Boiler' and 'Tiles'.

54: Includes £24 15s 0d for '½ measurers Fee'.

55: Includes £11 15s 0d for '½ measurers fee'.

56: Includes £5 15s 6d for '½ measurers Fee'.

57: Includes £1 17s 6d for '½ measurers fee'.

58: Includes £2 2s 0d for '½ measurers fee'.

59: For 'Casements', 'leaded lights', 'iron latches' and 'mortice locks'.

60: For 'Kitchen Range, Boot Boiler Special grates for Public Rooms and Bedroom fireplaces'.

Mackintosh Architecture: Context, Making and Meaning

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